CALL TO DUTY
BOOTS ON THE GROUND

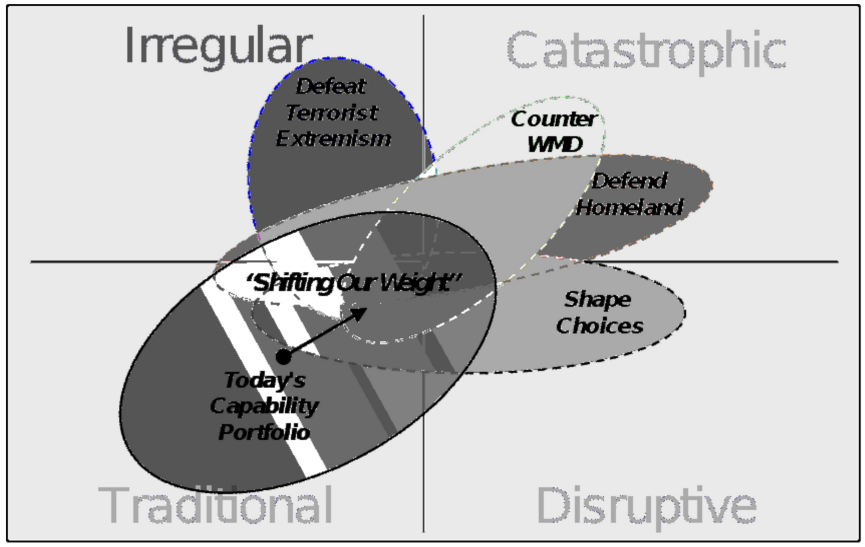
LTG David F. Melcher

Army Operational Research Symposium

8 November 2006

CALL TO DUTY
BOOTS ON THE GROUND

Building Army Capabilities to Meet the QDR Strategy…



Army must:

- Shift its center of gravity to enhance capabilities to better address four strategic challenges
  - ~ CA/PYSOP integrated with multipurpose forces
  - ~ Culture/languages, new doctrine
  - ~ 20th Support Command (JTF for WMD elimination)
- Balance near-term operational demands with long-term challenges
  - ➢ Expand capacity to fulfill both steady state (rotational) and surge needs for the long war
    - ~ 70 BCTs & 211 Spt Bdes (fully manned, trained, & equipped)
    - ~ Increase ARSOF

DEPUTY CHIEF OF STAFF G 8

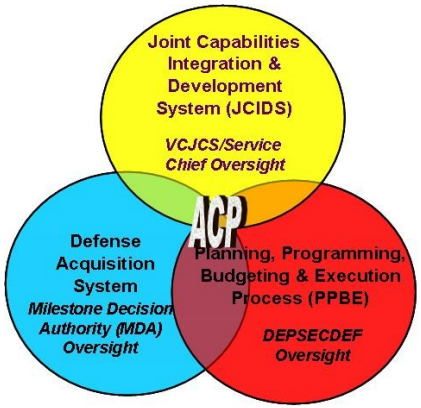
FOUO

CALL TO DUTY
BOOTS ON THE GROUND

Supporting Army Strategic Initiatives

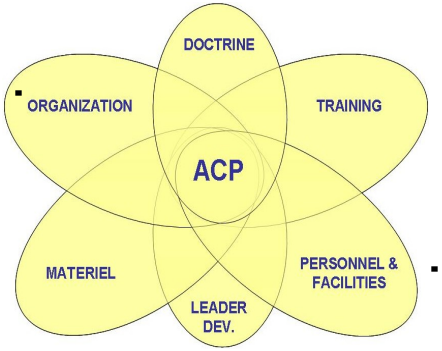
STRATEGY

RESOURCES


Joint Capabilities Integration & Development System (JCIDS)
VCJCS/Service Chief Oversight
ACP
Defense Acquisition System
Milestone Decision Authority (MDA) Oversight
Planning, Programming, Budgeting & Execution Process (PPBE)
DEPSECDEF Oversight

Army Campaign Plan

ACP integrates DOTMLPF action by HQDA & Army Commands



Four Overarching, Interrelated Strategies

- **Provide Relevant and Ready Landpower for the 21st Century Security Environment.**
- **Train and Equip Soldiers to Serve as Warriors and Grow Adaptive Leaders.**
- **Sustain an All-Volunteer Force Composed of Highly Competent Soldiers that are Provided an Equally High Quality of Life.**
- **Provide Infrastructure and Support to Enable the Force to Fulfill its Strategic Roles and Missions.**

DEPUTY CHIEF OF STAFF G 8

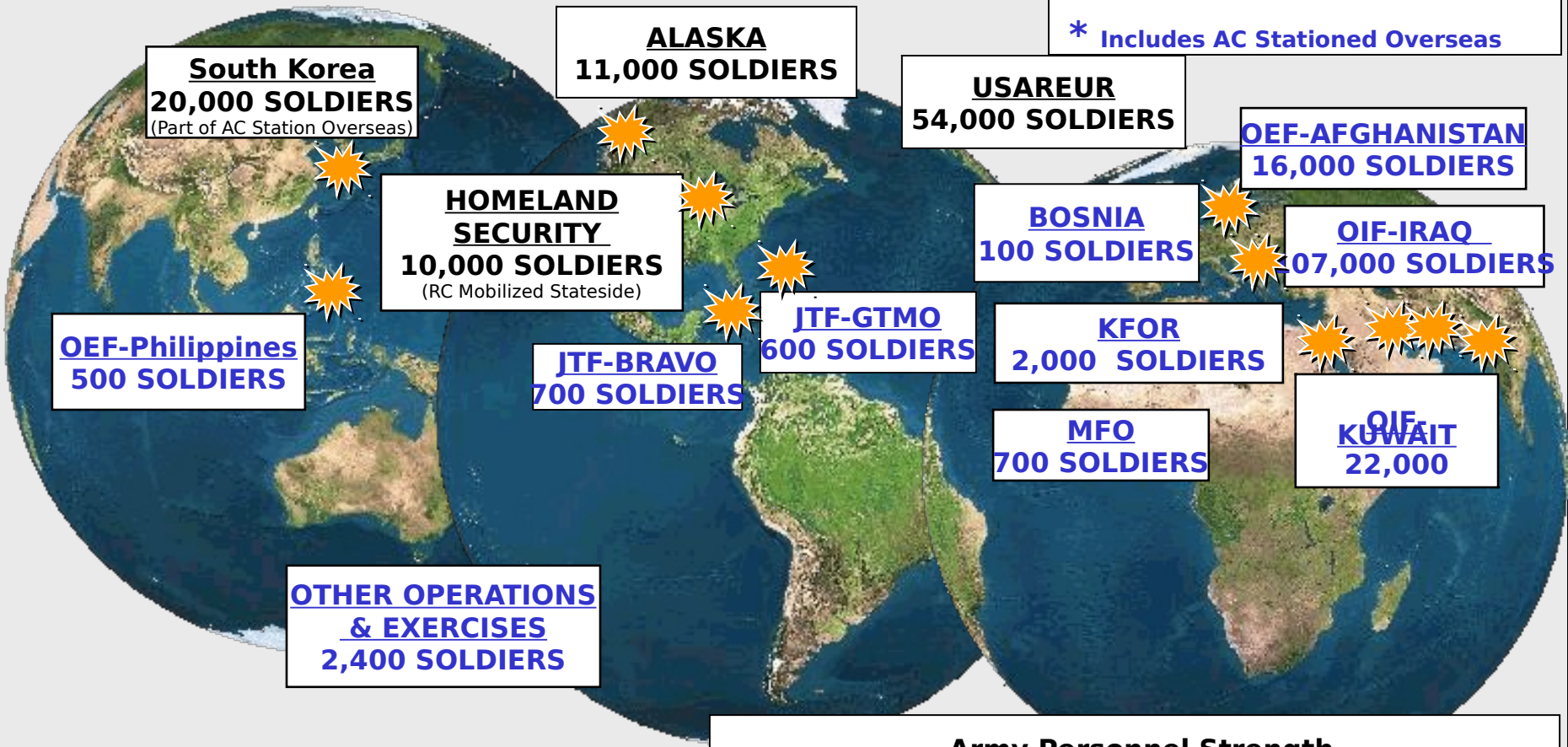
FOUO

Army Global Commitments

260,000* Soldiers overseas

in 70 countries

* Includes AC Stationed Overseas



AC STATIONED OVERSEAS 108 , 000

AC STATIONED STATESIDE 397,000

AS OF 24 OCT 06

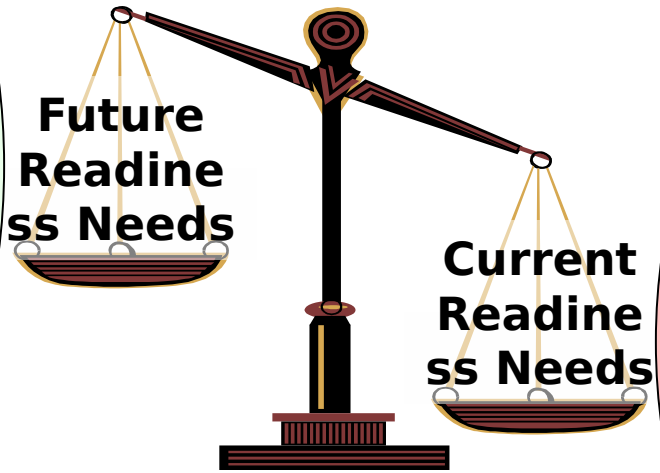
Army Personnel Strength

Component	Current Orders	R/C Authorized for Mobilization / On
- Active (AC)	505,000	N/A
- Reserve (RC)		
USAR	190,000	32,000
ARNG	346,000	49,000
	1,041,000	

Shifting Priorities

~ 2001

- Resources and institutional energy in "objective force" FCS systems
- Accepted risk in legacy forces without a traditional peer competitor
- Killed major systems in order to invest resources forward



~ 2006

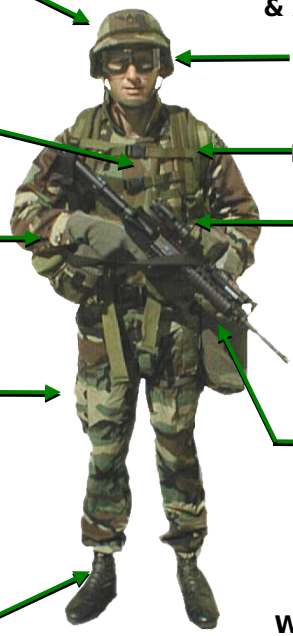
- 6.5 billion in buy-backs to reduce operational risk
- Good enough solutions for battle command
- Rapid Fielding Initiative (RFI) for force protection and soldier items
- Added 30k to grow capabilities

FOUO

CALL TO DUTY
BOOTS ON THE GROUND
U.S.ARMY

Evolution of Soldier

Soldier: 1999



Equipment Spending Per Soldier:

$7,083

Soldier: 2006

Army Combat Helmet & Accessories
PVS 14 Monocular Night Vision Device & Accessories
Close Combat Optic
Interceptor Body Armor (ACU Camouflage Pattern)
PEQ-2A Infrared Aiming Light
Outer Tactical Vest (OTV)
Gloves
M4 carbine (modular)
Enhanced Small Arms Protective Inserts
Army Combat Uniform
Deltoid Axillary Protector *
Side Plates*
Infantry Combat Boot Type II (Tan)
Knee and Elbow Pads
Protective Eyewear (Wiley X)
Thermal Weapons Sight II (Light)

Equipment Spending Per Soldier:

$25,980

DEPUTY CHIEF OF STAFF G 8

CALL TO DUTY
BOOTS ON THE GROUND

Equipping the Force as it Fights and Transforms

Building a campaign quality, modular force with joint and expeditionary capabilities for *today* and *tomorrow*!

AUGUST 2002

- M16A2s/M4
- Carbines/M240s/M14s
- Armored Security Vehicles
- Trojan Spirit Intell Satellite Comms System
- Containerized Kitchen
- Tactical Satellite Radio
- Single Channel Ground and Airborne Radio
- ARNG WMD Civil Support Team Unified Cmd.
- Blue Force Tracker
- Armored D9 Bulldozers
- PAC 3 missiles
- BIDs Platoons
- Iridium phones
- JLIST
- NCR Air Defense
- All Source Analysis System-Light Prophet Block I GRCS ARL
- Fixed-Base Precision Approach Radar (FBPAR)
- Bradley Reactive Armor Tiles
- Digital Topographic Spt. System (DTSS)
- Long Range Advanced Scout Surveillance System
- Sniper Rifles .50 Caliber
- Long Range Advanced Scout Surveillance System 3

2003

- Bradley Fire Support Vehicle
- Up-Armored HMMWV
- Rapid Aerostat Initial Deployment
- Small Arms Protective Insert
- Handheld Standoff Mine Detection System
- Prophet Block I
- Shadow TUAVs
- Missile Segment Enhancement
- Troposcopic Scatter Radio
- MH-47G
- DoD Advanced Automation System (DAAS)
- Air Traffic Navigation, Integration, Coordination System ATNAVICS
- Improved Ribbon Bridge
- HF (high frequency) Radios (AN/PRC-150)
- Single Channel Tactical Satellite Radio (AN/PRC-117)
- Property Book Unit Supply - Enhanced
- RFI 18 Items/10% Equipped

2004

- Lightweight Laser Designator Range Finder Knight
- Add-On Armor for Tactical Wheeled Vehicle Fleet in Theater
- NBC Reconnaissance Vehicle-Stryker
- Deltoid Axiliary Protectors
- Biological Integrated Protection System
- Raven UAVs
- Joint Land Attack Cruise Missile Defense Elevated Netted Sensor System
- Battle Cmd. Sustainment Spt. System
- Rapid Equipment Fielding
- Common Missile Warning Device for Aircraft
- Bradley Reactive Armor Tiles (V. A2)
- MBITR (multiband inter/intra Team Radio) (AN/PRC-148)
- DAGR (Defense Advanced Global Positioning System Receiver)
- CPOF
- HIPPO
- RFI 49 Items

2005

- Buffalo
- RG-31
- Counter Rocket Artillery and Mortar
- Enhanced Small Arms Protective Insert
- ADA Management Cells
- Tactical Exploitation System
- Integrated Meteorological System
- Joint CBR Agent Water Monitor
- Joint Network Node
- Army Battle Command System 6.4
- Army Airborne C2 System
- Analysis & Control Element (ACE) Block II
- Digital Airport Surveillance Radar (DASR)
- Tactical Airspace Integration System Airspace Work Station TAIS-AWS
- M113 Add-on-Armor
- Interim Vehicle Mounted Mine Detector
- Light Tactical Trailer and LHS Modular Fuel Farm
- MBITR/VAA (Vehicular amplifier adapter)
- TOCS
- Phoenix SATCOM Tri-band
- RFI 58 Items/Deltoid Auxiliary Protectors Fielding to Theater

2006

- Mobile Gun System
- Warlock
- Rapidly Emplaced Bridge System
- Counter Radio Control Improvised Explosive Device Electronic Warfare Increment 2
- Side Plate
- Movement Tracking System Plus
- Mounted Warrior Soldier System
- Thermal Weapon Sights II
- Standard Army Maintenance System Enhanced
- Prophet Block II
- Non-Intrusive Inspection System
- Counterintelligence/Human Intelligence Information Management System
- Small Robotic Scout System
- Tactical Exploition System Lite
- ARC-231 Airborne SATCOM Radio for all aircraft
- Joint Precision Airdrop System
- Joint C2 Capabilities
- Joint Effects Model
- MBMMR (Multi-band/multi-mode) TACSAT Radio (AN/PSC-5D)
- Joint Network Management System (JNMS)
- Phoenix SATCOM Quad-band Upgrade
- GBS IP Upgrade
- RFI 58 items

2006 Continued

- Improved First Aid Kit
- Bradley urban survival kit
- (HME III) High Mobility Engineer Excavator
- Cougar
- Up Armored HMMWV w/Frag Kit

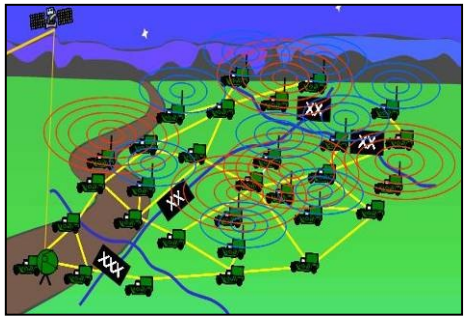
— Represents equipment that did not have programs of record when fielded

CALL TO DUTY
BOOTS ON THE GROUND

Pulling Future Technology into the Current Force

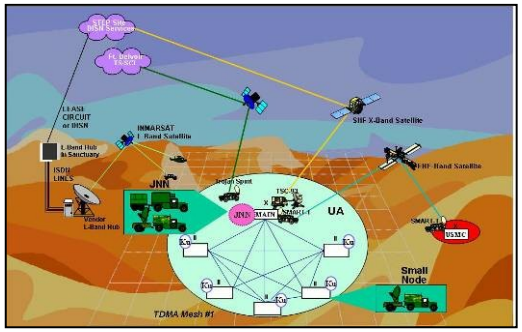
Network

Division Based Army



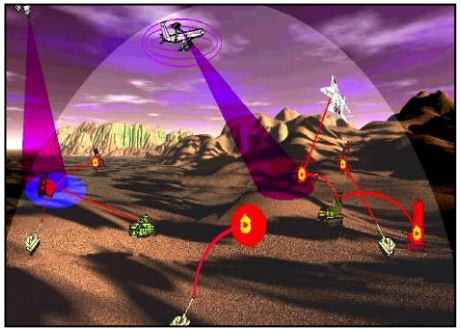
TERRESTIAL COMMON OPERATING PICTURE

Modular Brigade



ENHANCED BATTLE COMMAND

FCS BCT



NETWORK-CENTRIC

Spin Outs of New Technology

FY2008
Spin Out 1
Sensors / Shooters

FY2010
Spin Out 2
Unmanned Aerial Vehicles

FY2012
Spin Out 3
Unmanned Ground Vehicles

FY2014
Spin Out 4
Network

Common Platforms

Infantry Carrier Vehicle

Mounted Combat System

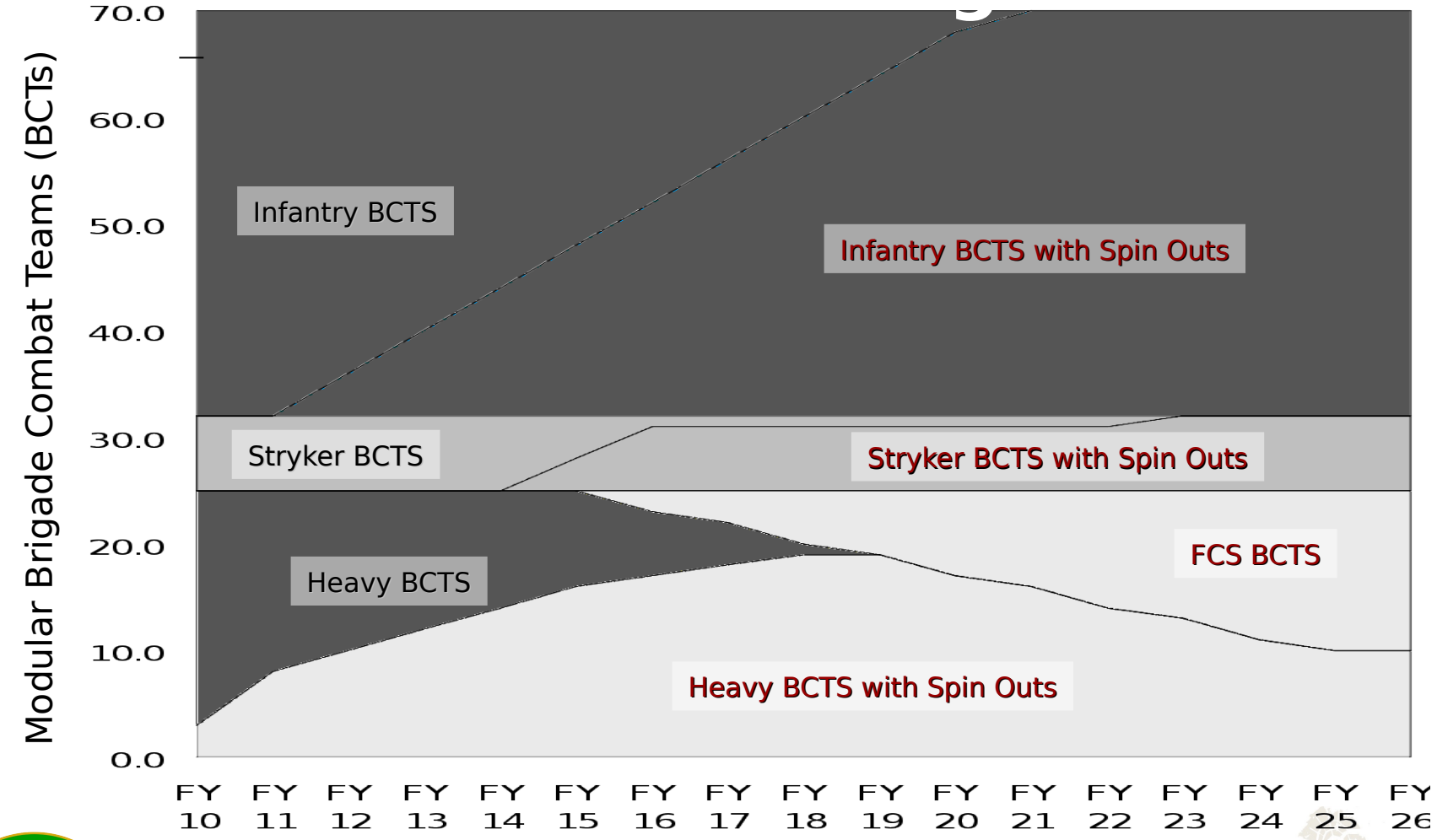
Recon and Surveillance Vehicle

Non-Line of Sight Cannon

Also includes:
Non-Line of Sight Mortar
Command and Control Vehicle
FCS Recovery and Maintenanc
Medical Treatment and Evacu

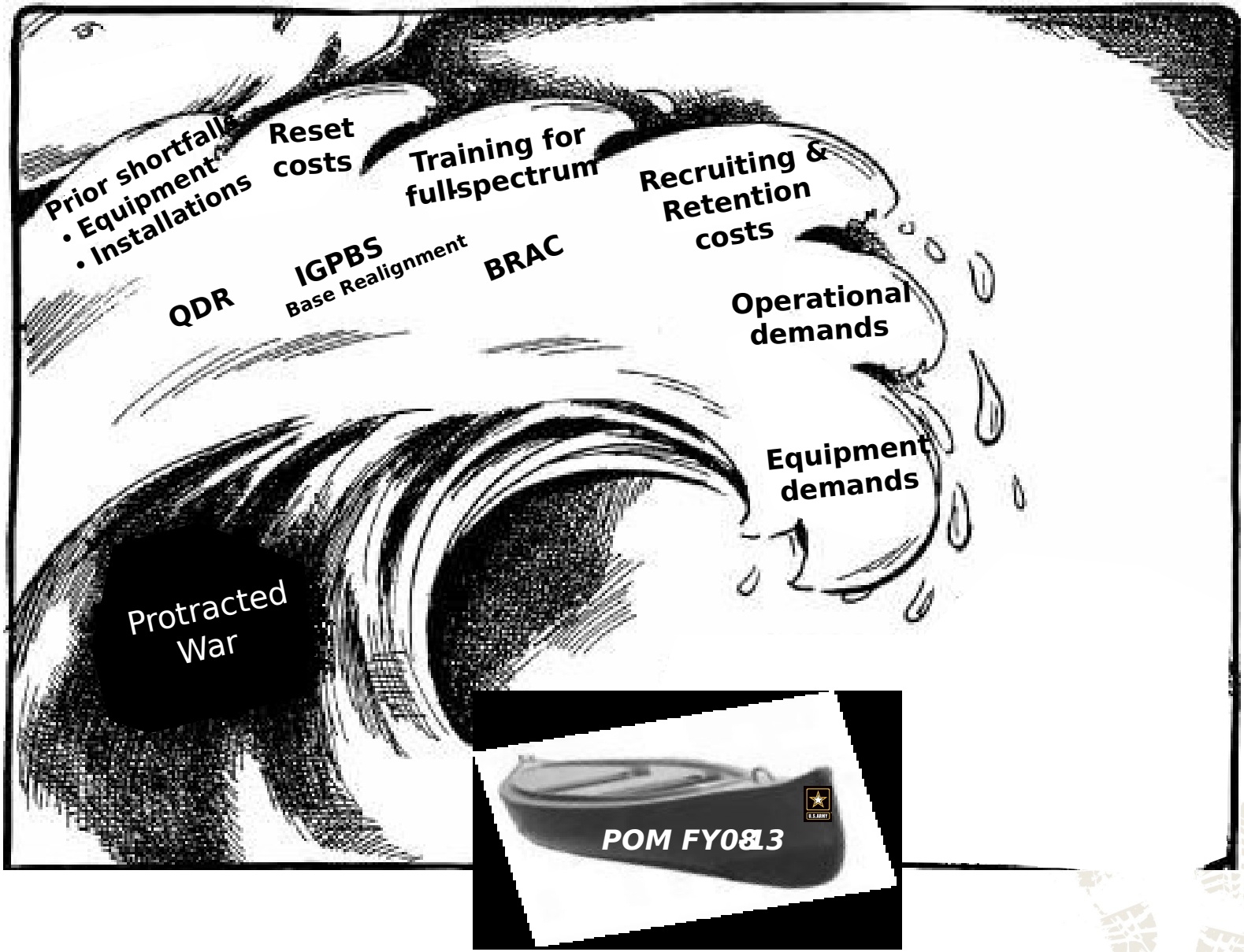
FOUO

Army Modernization



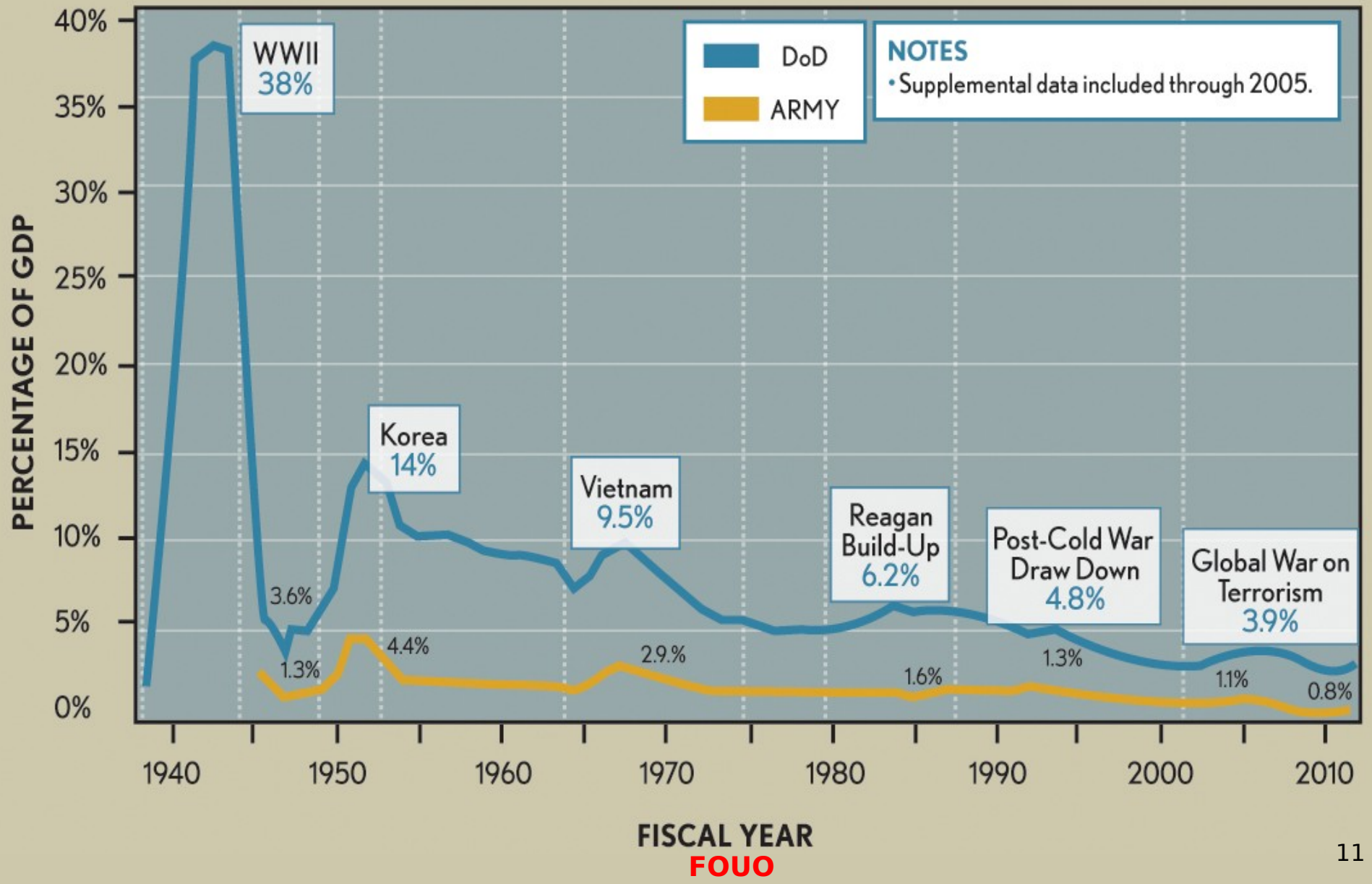
The US Marine Corps and US Special Operations Command will leverage FCS capabilities as they mature

The Perfect Storm



DoD and Army Outlays as a Percentage of U.S. GDP

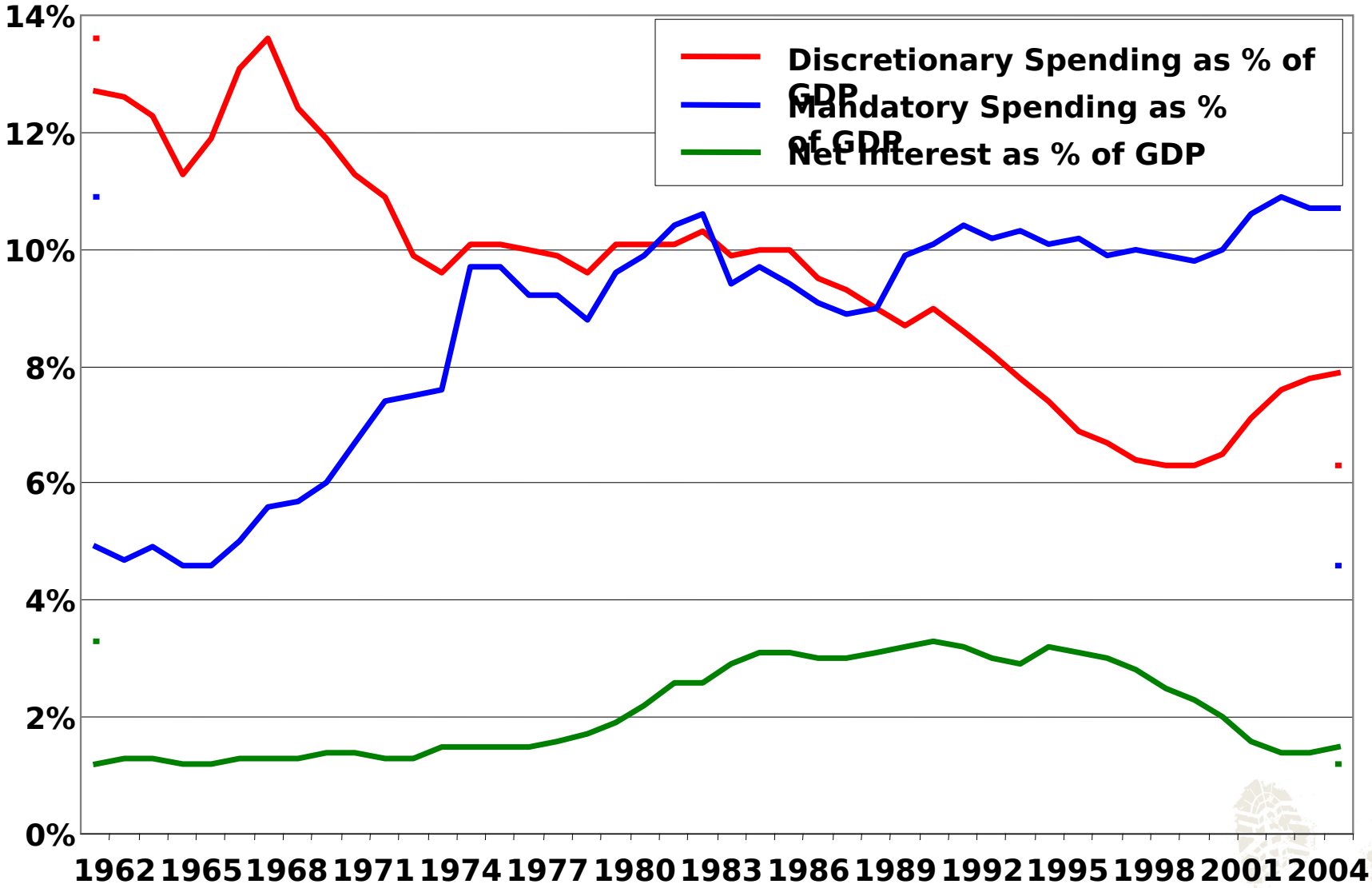
DoD: Department of Defens



FOUO

CALL TO DUTY
BOOTS ON THE GROUND

Discretionary and Mandatory Spending as a Percentage of GDP



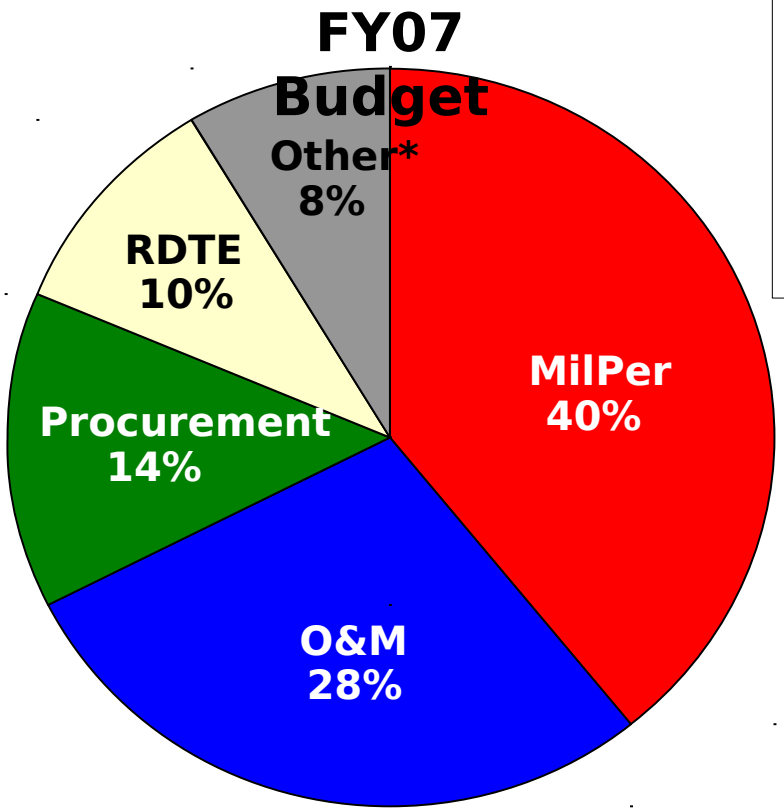
Source: Congressional Budget Office, *The Budget and Economic Outlook*, FY2007-2016, Appendix F: Historical Budget Data, January 2006, located at http://www.cbo.gov/ftpdocs/70xx/doc7027/01-26-BudgetOutlook.pdf, accessed 23 Oct 06.

Army Resource Distribution

Base Program President's Budget

O&M
- Trains Soldiers, Units, and Leaders for the fight
- Air and Ground OPTEMPO risk mitigated by SUPP
- Funds scheduled Depot Maintenance
- Funds BASOPS / SRM at 90% with internal realignment

RDA - INVESTMENT
- Supports Army Modular Force equipment and facilities requirements
- Maintains momentum of Army Transformation
- Sustains modernization and recapitalization efforts
- Continues investment in the Future Combat Systems



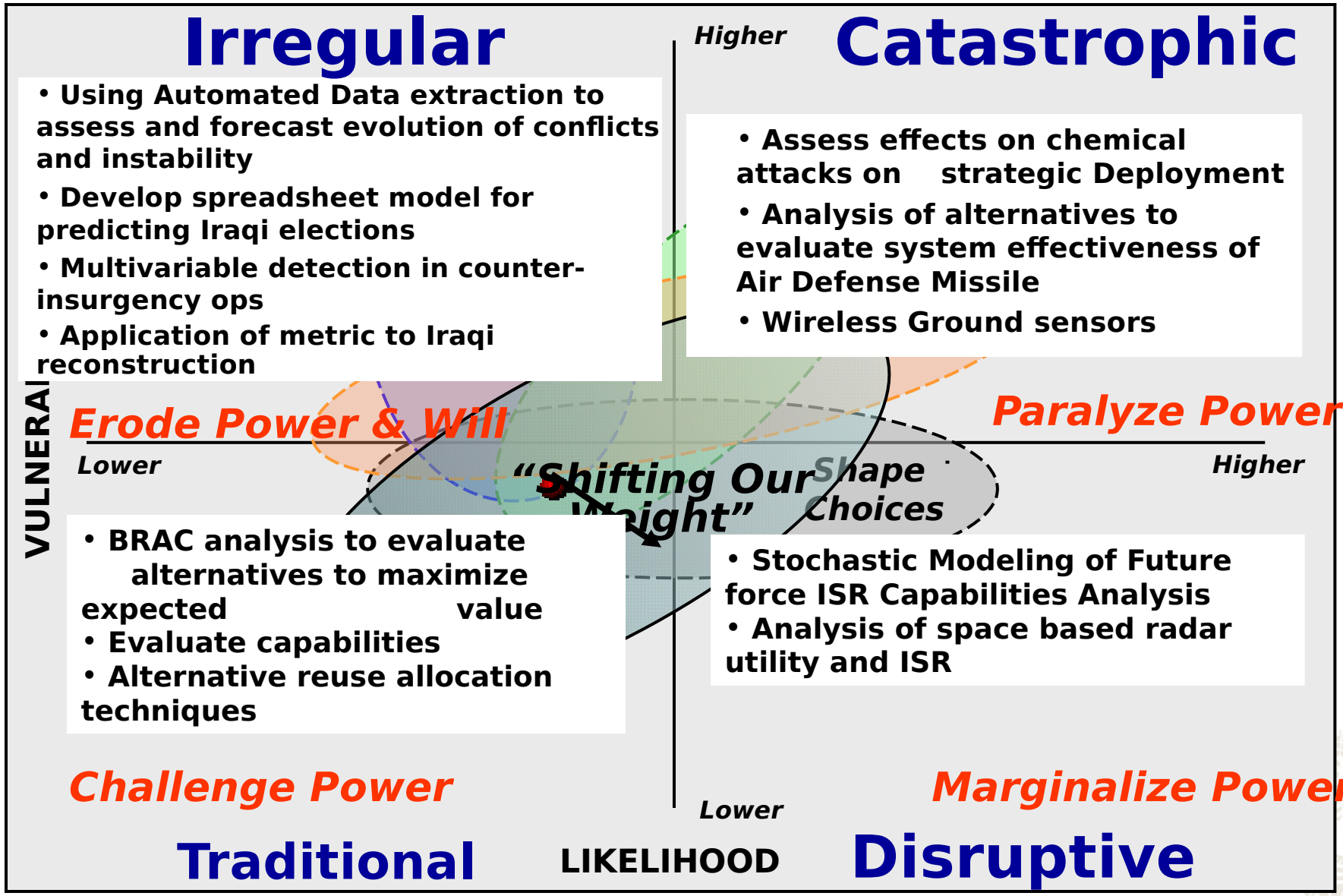
MilPer	$43.1B
O&M	$31.1B
Procurement	$15.5B
RDTE	$11.1B
Other*	$9.3B
Total*	$110.1B

MILPERS
- Funds 482.4K AC / 350K ARNG / 200K USAR

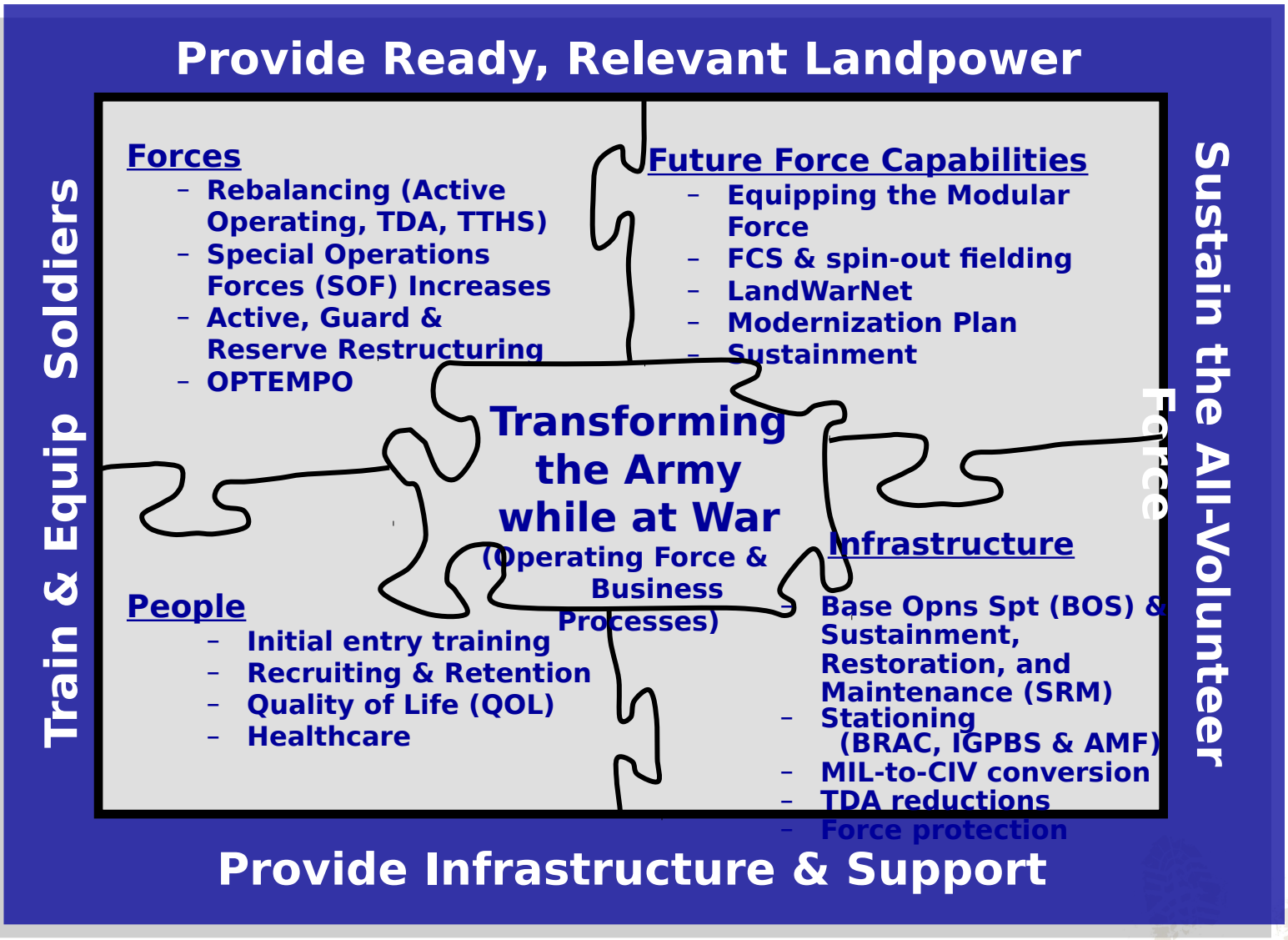
Source: FY07 Defense Appropriations Joint Conference Marks
* Based on PB07 Request (AFH, BRAC, and MILCON Appropriations Not Yet Complete as of 2 Oct 06)

FOUO

How 49's Support the Fight


Irregular
Higher
Catastrophic
• Using Automated Data extraction to assess and forecast evolution of conflicts and instability
• Develop spreadsheet model for predicting Iraqi elections
• Multivariable detection in counter-insurgency ops
• Application of metric to Iraqi reconstruction
• Assess effects on chemical attacks on strategic Deployment
• Analysis of alternatives to evaluate system effectiveness of Air Defense Missile
• Wireless Ground sensors
VULNERABILITY
Erode Power & Will
Paralyze Power
Lower
Higher
"Shifting Our Weight"
Shape Choices
• BRAC analysis to evaluate alternatives to maximize expected value
• Evaluate capabilities
• Alternative reuse allocation techniques
• Stochastic Modeling of Future force ISR Capabilities Analysis
• Analysis of space based radar utility and ISR
Challenge Power
Marginalize Power
Lower
Traditional
LIKELIHOOD
Disruptive

Army Challenges



TDA: Temporary Deputy Assigned
TTHS: Trainees, Transients, Holdees, and Students
OPTEMPO: Operating Tempo

FCS: Future Combat System
BRAC: Base Realignment and Closure Commission
IGPBS: Integrated Global Presence and Basing Strategy
AMF: Army Modular Force

Questions

CALL TO DUTY
BOOTS ON THE GROUND

New OPMS Design

Maneuver, Fires & Effects

Maneuver (AR, IN, AV)

Fires (FA, AD)

Maneuver Support (EN, CM, MP)

SOF (SF, PSYOP, CA)

Effects (IO, PAO)

Force Sustainment

Log Corps - FA 90 (TC, QM, OD)

Soldier Support – (AG/42H– Human Resources, FI/45 - Comptroller)

Special Branches (VC, MS, AN, SP, MC, DC, CH, JA)

Acquisition

Future FA36

Operations Support

Network & Space Operations (SC, Telecomms, Automation, Space Ops)

ISR & Area Expertise (MI, Strat Intel, FAO)

Plan Development (Strat Plans & Policy, Nuclear & Counterproliferation)

Force Development - (Force Management, ORSA)

Training & Education – (Permanent/Academy Professor, Simulation Operations)

FA49 / FA50

Supports:

- Joint & Army doctrine
- Broader officer development, including development of expeditionary competenc
- Broader access to positions

FOUO